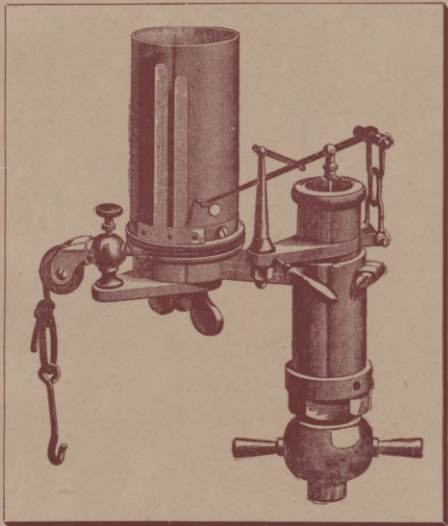


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WILLIAM H. BRYAN,

M. AM. SOC. M. E.

Mechanical and Electrical Engineer,



Room 1, Turner Building, 304 N. Eighth Street,
... ST. LOUIS ...

TELEPHONE No. 335. _____

WILLIAM H. BRYAN, M. E.

† † †

Member American Society Mechanical Engineers; Secretary and
Member Executive Committee, Engineers' Club of St. Louis;
Member Board of Managers The Electric Club; Member Smoke
Commission, City of St. Louis; Member Citizens' Smoke Abate-
ment Association, St. Louis; President Washington University
Alumni Association, etc., etc.

† † †

TURNER BUILDING, = ST. LOUIS.

WILLIAM H. BRYAN, M. E.,

IS PREPARED TO UNDERTAKE PROFESSIONAL
WORK IN THE SHAPE OF

CONSULTATIONS, EXAMINATIONS, ESTIMATES,
TESTS, REPORTS, PLANS, SPECIFICATIONS,
SUPERINTENDENCE AND PURCHASING;

. . IN CONNECTION WITH . .

WATER WORKS—MUNICIPAL OR PRIVATE,

ELECTRIC LIGHTING INSTALLATIONS,

ELECTRIC RAILWAY AND POWER SYSTEMS,

STEAM AND POWER PLANTS,

STEAM HEATING, SMOKE ABATEMENT,

ICE MAKING AND REFRIGERATION.



SPECIALTIES:

BOILER AND ENGINE TESTING,

INDICATING ENGINES,

VALVE ADJUSTMENT.



TURNER BUILDING, ST. LOUIS.

WILLIAM H. BRYAN, M. E.,

MECHANICAL AND ELECTRICAL ENGINEER.



ASSISTANTS AND APPARATUS.

On these the accuracy and reliability of an Engineer's work depend—particularly in making Examinations and Tests. Few Engineers have as complete an equipment at their disposal as Mr. Bryan.

EXISTING PLANTS

Sometimes fail to reach anticipated results in mechanical or commercial efficiency. Expert investigation will usually locate the fault and point the remedy.

Additions and alterations are worthy of even more careful study than original installations.

PURCHASING

Machinery, Material and Supplies at the lowest figures is possible where one person buys largely and regularly. In addition, when a Consulting Engineer makes the purchase, it is reasonable to expect that the best for the special purpose in hand will be secured.

ALLIED WORK,

Such as the Architecture of Industrial Structures, Bridge and Roof Design, Difficult Foundations, Fuel and Ash Analyses, etc., will be undertaken through arrangements with Specialists in these branches.

REFERENCES BY PERMISSION:

ROBERT E. McMATH, - - - St. LOUIS.

President Board of Public Improvements.

PROF. W. S. CHAPLIN, - - - St. LOUIS.

Chancellor Washington University.

HENRY HITCHCOCK, - - - St. LOUIS.

Attorney. Ex-President National Bar Association.

GEORGE BURNET, - - - St. LOUIS.

Civil Engineer. Late President Board of Public
Improvements.

L. D. KINGSLAND, - - - St. LOUIS.

Manufacturer. Late President St. Louis Exposition
and Music Hall Association.

DR. C. M. WOODWARD, - - - St. LOUIS.

Director St. Louis Manual Training School.

CAPT. JOHN P. KEISER, - - - St. LOUIS.

Capitalist. Late President Laclede Gas Light Co.

PROF. J. B. JOHNSON, - - - St. LOUIS.

Professor Civil Engineering, Washington University.

FRANKLIN FERRISS, - - - St. LOUIS.

Attorney. Vice-President City Council.

GEO. H. MORGAN, - - - St. LOUIS.

Secretary Merchants Exchange.

PROF. WILLIAM B. POTTER, - - - St. LOUIS.
Manager St. Louis Sampling and Testing Works.

MINARD L. HOLMAN, - - - St. LOUIS.
Water Commissioner, City of St. Louis.

ROBERT MOORE, - - - St. LOUIS.
Civil Engineer.

COL. EDW. D. MEIER, - - - St. LOUIS.
President Heine Safety Boiler Co.

LEROY BARTLETT, - - - St. LOUIS.
Master Mechanic Missouri Pacific Railway.

WM. C. LITTLE & BRO. INVESTMENT CO. St. LOUIS.
Stock and Bond Brokers.

A. G. EDWARDS & SONS, - - - St. LOUIS.
Stock, Bond and Note Brokers.

JAMES CAMPBELL, - - - St. LOUIS.
Broker.

D. E. GARRISON & Co. - - - St. LOUIS.
Railway Equipment and Supplies.

T. A. MEYSENBURG, - - - St. LOUIS.
President Belleville Steel Co. and Tudor Iron Works.

FRANKLIN BANK, - - - St. LOUIS.

GEORGE KRUMSICK, - - - ST. LOUIS.

First Vice-President Anheuser-Busch Brewing
Association.

HON. MAYOR AND CITY COUNCIL, WASHINGTON, MO.

BANK OF WASHINGTON, - - WASHINGTON, MO.

E. W. STEPHENS, - - COLUMBIA, MO.

Publisher *The Herald*.

JOHN D. GERLACH, - - - CHESTER, ILLS.

Cashier First National Bank.

GEO. H. PEGRAM, - - - OMAHA, NEB.

Chief Engineer Union Pacific Railway System.

A. B. HUNT, - - - OMAHA, NEB.

Receiver Omaha Water Works.

MAJOR ALEX. M. MILLER, - GALVESTON, TEX.

Major Corps of Engineers, U. S. A.

EMERSON McMILLIN, - - NEW YORK.

President Laclede Gas Light Co., St. Louis.

WALTER F. SMITH, - - PHILADELPHIA.

General Manager United Electric Improvement Co.

HENRY R. TOWNE, - - - STAMFORD, CONN.

Ex-President American Society of Mechanical
Engineers.

WILLIAM F. DONOVAN, - - STAMFORD, CONN.

General Manager Yale & Towne Manufacturing Co.

ADDITIONAL REFERENCES :

Mr. Bryan has also rendered professional services to the following, or in connection with their plants :

BOARD OF PUBLIC IMPROVEMENTS,	-	CITY OF ST. LOUIS.
CHAIN OF ROCKS PUMPING PLANT,		CITY OF ST. LOUIS.
HOUSE OF REFUGE,	- - -	CITY OF ST. LOUIS.
PEABODY & STEARNS, ARCHITECTS,	-	ST. LOUIS.
SHEPLEY, RUTAN & COOLIDGE, ARCHITECTS,		ST. LOUIS.
A. F. ROSENHEIM, ARCHITECT,	- -	ST. LOUIS.
C. K. RAMSEY, ARCHITECT,	- - -	ST. LOUIS.
KIRCHNER & KIRCHNER, ARCHITECTS,	-	ST. LOUIS.
THE COLLIER BLOCK,	- - -	ST. LOUIS.
THE MALLINCKRODT BUILDING,	- -	ST. LOUIS.
THE COLUMBIAN CLUB BUILDING,	- -	ST. LOUIS.
THE KNOX ESTATE BUILDING,	- -	ST. LOUIS.
CHRIST CHURCH PARISH BUILDING,	-	ST. LOUIS.
TURNER REAL ESTATE COMPANY,	-	ST. LOUIS.
THE MERCHANTS EXCHANGE,	- -	ST. LOUIS.
ST. LOUIS SANITARY CO.,	- - -	ST. LOUIS.

EDISON ILLUMINATING Co.,	-	-	ST. LOUIS.
MUNICIPAL ELECTRIC LIGHT AND POWER Co.,			ST. LOUIS.
ST. LOUIS & SUBURBAN RAILWAY Co.,	-		ST. LOUIS.
LINDELL RAILWAY Co.,	-	-	ST. LOUIS.
THE INTERSTATE COMPLETE ELECTRIC CON- STRUCTION Co.,	-	-	ST. LOUIS.
THE JOURNAL OF COMMERCE Co., PUBLISHERS OF THE " <i>Age of Steel</i> ,"	-	-	ST. LOUIS.
THE DISPATCH PUBLISHING Co.,	-	-	ST. LOUIS.
WOODWARD & TIERNAN PRINTING Co.,	-		ST. LOUIS.
C. B. WOODWARD PRINTING Co.,	-	-	ST. LOUIS.
JOHN O'BRIEN BOILER WORKS Co.,	-		ST. LOUIS.
ROHAN BROS. BOILER MFG. Co.,	-	-	ST. LOUIS.
THOMAS SMOKELESS FURNACE Co.,	-		ST. LOUIS.
IMPROVED ZIG-ZAG GRATE AND FURNACE Co.,			ST. LOUIS.
STANDARD SMOKELESS FURNACE Co.,	-		ST. LOUIS.
DRUMMOND TOBACCO Co.,	-	-	ST. LOUIS.
WM. J. LEMP BREWING ASSOCIATION,	-		ST. LOUIS.
TROSLICHT, DUNCKER & RENARD CARPET Co.,			ST. LOUIS.
LAMMERT FURNITURE Co.,	-	-	ST. LOUIS.
QUICK MEAL STOVE Co.	-	-	ST. LOUIS.
ST. LOUIS WRECKING Co.	-	-	ST. LOUIS.
WILLEMSSEN BELTING Co.,	-	-	ST. LOUIS.
LACLEDE POWER Co.,	-	-	ST. LOUIS.
CHRISTY FIRE CLAY Co.,	-	-	ST. LOUIS.

BOARD OF PUBLIC WORKS,	-	KANSAS CITY, MO.
NATIONAL WATER Co.,	-	KANSAS CITY, MO.
ARMOUR PACKING Co.,	-	KANSAS CITY, MO.
CITY HALL,	-	KANSAS CITY, MO.
THE HERALD,	-	COLUMBIA, MO.
STEPHENS COLLEGE,	-	COLUMBIA, MO.
MAYOR AND CITY COUNCIL,	-	SPRINGFIELD, MO.
FULTON ELECTRIC LIGHT Co.,	-	FULTON, MO.
GUIDO JAEGER, WATER-WORKS BUILDER,	-	RICH HILL, MO.
WATERLOO GAS AND ELECTRIC LIGHT Co.,	-	WATERLOO, IOWA.
CITY WATER WORKS,	-	WOODBINE, IOWA.
THE STIRLING Co.,	-	CHICAGO, ILLS.
THE ELECTRICIAN PUBLISHING Co.,	-	CHICAGO, ILLS.
JOGADA FURNACE Co.,	-	CHICAGO, ILLS.
HAWLEY-DOWN DRAFT FURNACE Co.,	-	CHICAGO, ILLS.
JOSEPH F. PORTER, CONTRACTOR,	-	ALTON, ILLS.
KEWANEE BOILER Co.,	-	KEWANEE, ILLS.
MAYOR AND CITY COUNCIL,	-	PADUCAH, KY.
REYNOLDS FURNACE Co.,	-	OMAHA, NEB.
AMERICAN WATER-WORKS Co.,	-	OMAHA, NEB.
AMERICAN WATER-WORKS Co.,	-	FLORENCE, NEB.
KEENE MACHINE Co.,	-	DALLAS, TEXAS.
WATER-WORKS,	-	CORPUS CHRISTI, TEX.
NATIONAL WATER TUBE BOILER Co.,	-	NEW BRUNSWICK, N.J.
THE ENGINEERING MAGAZINE Co.,	-	NEW YORK.

PROFESSIONAL WORK EXCLUSIVELY.

It is an unfortunate fact that some contractors, agents and salesmen attempt to dignify their calling by posing as Consulting Engineers. Such Engineering (?) as they do is, of course, secondary to their regular business. They will therefore, offer their services on almost any terms—in some cases gratis—in the expectation of making a commission on the apparatus or material sold, or a profit on the work done.

Such services, being necessarily biased, are worse than valueless. It is to the interest of such persons to have the customer adopt those plans which will afford them the greatest profit, and not those which insure the customer the best results.

Furthermore, it is not likely that the employment of Engineering services of this character will keep down the cost of the plant. There are few bidders who care to put themselves in the hands of their competitors. It is but natural that they should doubt that their bids will receive fair consideration under such circumstances. Even if given the contract they fear that they might be subjected to petty annoyances and undue expense in executing it. Besides this, they do not care to put their competitors in possession of their lowest figures. Therefore, those who bid at all will probably bid high.

The entire attention of Mr. Bryan and his Assistants is devoted to strictly Professional work in the interests of his clients. No machinery is sold nor contracts undertaken either on his own behalf, or that of any particular individual or company, under any circumstances.

... TERMS ...

No fixed schedule of charges can be established which will properly cover the wide range of professional work coming within the province of a Consulting Engineer in active practice. Frequently, however, the cost of the work in hand forms a fair basis for a percentage fee. When the nature of the work prevents this, the charge will depend upon the Time, Assistants and Apparatus involved. A definite proposal will be made covering any special case on receipt of an explanation of its character.

On work outside of St. Louis it is customary to charge traveling expenses in addition to the usual compensation.

WILLIAM H. BRYAN, M. E.,

CONSULTING ENGINEER FOR

Southern Electric Railroad Co.,	St. Louis, Mo.
The Collier Estate,	St. Louis, Mo.
Washington Water and Light Co.,	Washington, Mo.
A. A. Tibbe Electric Light Plant,	Washington, Mo.
Union Electric Lighting System,	Union, Mo.
Rich Hill Water, Light and Fuel Co.,	Rich Hill, Mo.
Holden Water Co.,	Holden, Mo.
Chester Light, Water and Ice Co.,	Chester, Ills.
City Lighting Plant,	Hawarden, Iowa.
Marshalltown Light, Power and Railway Co.,	Marshalltown, Iowa.
Standard Gas and Electric Works Co.,	Independence, Iowa.



TURNER BUILDING,

ST. LOUIS.